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A screenshot of a video game

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A screenshot of a cell phone

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Proposition:

Get the instructors who are teaching in classes in multiple departments

/\*\*\*\*\*\* Script for SelectTopNRows command from SSMS \*\*\*\*\*\*/

SELECT

count([DepartmentId]) AS NumDepartment

,[InstructorLastName]

,[InstructorFirstName]

FROM [QueensCollegeSchedulSpring2019].[QC].[Instructor]

group by InstructorFirstName, InstructorLastName

HAVING count([DepartmentId]) > 1

ORDER BY NumDepartment

A screenshot of a social media post

Description automatically generated

Proposition: get the number of instructors in each department

/\*\*\*\*\*\* Script for SelectTopNRows command from SSMS \*\*\*\*\*\*/

SELECT B.DepartmentName,

count(concat (A.InstructorFirstName, ' ', A.InstructorLastName)) as NumInstructors

FROM [QueensCollegeSchedulSpring2019].[QC].[Instructor] as A

INNER JOIN QC.Department as B

on A.DepartmentId = B.DepartmentId

A screenshot of a social media post

Description automatically generated group by B.DepartmentName

PROPOSITION: NUMBER OF classes that are being taught that semester grouped by course and aggregating the total enrollment, total class limit and the percentage of enrollment.

/\*\*\*\*\*\* Script for SelectTopNRows command from SSMS \*\*\*\*\*\*/

SELECT B.CourseName, SUM(A.Enrolled), SUM(A.Limit),

CASE

WHEN SUM(A.Limit) <> 0 THEN CONVERT (DECIMAL(7,2), SUM(A.Enrolled) \* 100/ SUM(A.Limit))

ELSE 0

END AS EnrollmentPercentile

FROM [QueensCollegeSchedulSpring2019].[QC].CLASS as A

INNER JOIN QC.Courses as B

on A.CourseId = B.CourseId

group by B.CourseId, B.CourseName

A screenshot of a social media post

Description automatically generated

Proposition: Courses which are not taught in semester 2019.

/\*\*\*\*\*\* Script for SelectTopNRows command from SSMS \*\*\*\*\*\*/

SELECT B.CourseName,C.InstructionDescription,

CASE

WHEN E.InstructorId IS NULL THEN 'TBD'

else concat(E.InstructorFirstName, ' ', E.InstructorLastName)

END AS Instructor,

case

when D.RoomNumber IS NULL THEN 'TBD'

ELSE D.RoomNumber END AS RoomNumber,

[Section]

,[SectionCode],[Enrolled],[Limit] ,[Day],[StartingTime]

,[EndingTime] ,A.[ClassTime] ,A.[LastName] ,A.[Firstname]

,A.[DateAdded],A.[DateOfLastUpdate],A.[QmailEmailAddress],A.[AuthorizedUserId]

FROM [QueensCollegeSchedulSpring2019].[QC].CLASS as A

INNER JOIN QC.Courses as B

on A.CourseId = B.CourseId

inner join qc.ModeOfInstruction as C

ON A.ModeId = C.ModeId

LEFT OUTER JOIN QC.Room AS D

on A.RoomId = D.RoomId

LEFT OUTER JOIN QC.Instructor AS E

ON A.InstructorId = E.InstructorId

WHERE A.Limit = 0 AND A.Enrolled = 0

A screenshot of a computer

Description automatically generated

Proposition: Courses which have yet to decide the instructor

/\*\*\*\*\*\* Script for SelectTopNRows command from SSMS \*\*\*\*\*\*/

SELECT B.CourseName,C.InstructionDescription,

CASE

WHEN E.InstructorId IS NULL THEN 'TBD'

else concat(E.InstructorFirstName, ' ', E.InstructorLastName)

END AS Instructor,

[Section] ,[SectionCode],[Enrolled],[Limit]

,[Day],[StartingTime],[EndingTime]

,A.[ClassTime],A.[LastName] ,A.[Firstname]

,A.[DateAdded] ,A.[DateOfLastUpdate] ,A.[QmailEmailAddress] ,A.[AuthorizedUserId]

FROM [QueensCollegeSchedulSpring2019].[QC].CLASS as A

INNER JOIN QC.Courses as B

on A.CourseId = B.CourseId

inner join qc.ModeOfInstruction as C

ON A.ModeId = C.ModeId

LEFT OUTER JOIN QC.Room AS D

on A.RoomId = D.RoomId

LEFT OUTER JOIN QC.Instructor AS E

ON A.InstructorId = E.InstructorId

WHERE A.InstructorId IS NULL

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PROPOSITION 3: NO OF COURSE FOR EACH MODE OF INSTRUCTINS EXCEPT THE ONES THAT ARE NOT TAUGHT IN SPRING SEMESTER 2019

/\*\*\*\*\*\* Script for SelectTopNRows command from SSMS \*\*\*\*\*\*/

SELECT C.InstructionDescription, COUNT(B.CourseName) AS NumberOfCourses

FROM (select CourseId, ModeId

from [QueensCollegeSchedulSpring2019].[QC].CLASS

where Enrolled <> 0 and Limit <> 0) as A

INNER JOIN QC.Courses as B

on A.CourseId = B.CourseId

inner join qc.ModeOfInstruction as C

ON A.ModeId = C.ModeId

GROUP BY C.InstructionDescription

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